

APRIL/MAY 2024

23PCS13 — PYTHON PROGRAMMING

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Name the two types of modes provided by Python IDLE.
2. What are the Sequence types in Python?
3. What is the use of *Elif* keyword in Python?
4. What is Generators in Python?
5. How will you define and use a class in Python?
6. How will you get and set attribute values with properties in Python?.
7. What are the four modes for opening a File?
8. What is the role of Web Server?
9. What is gevent in Python?
10. Define the term Remote Processing.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Compare and contrast List and Tuple collection types.

Or

- (b) Develop a Python program to find the largest word(s) in a given string.

12. (a) Give the outline of Iterative statements in Python.

Or

- (b) Examine the operation of user defined exception with an example.

13. (a) What is a module? Explain the importing of modules with an example.

Or

- (b) Develop a Python program to sum the set of command line arguments.

14. (a) Write a Python program for manipulating the structured text files.

Or

- (b) Write a note on Web Client and Web Servers.

15. (a) Explain the concept of multithreading in Python.

Or

- (b) Write short notes Big Fat Data and MapReduce.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe the sequence operators and built-in methods used on Dictionaries.

17. Explain the role of functions in Python with examples.

18. What is overriding? Explain with an example of overriding methods.

19. Classify the various storage representations for NoSQL Data stores.

20. Describe the publish and subscribe model of python through Redis.